

Title (en)
INHIBITION OF STEM CELL DIFFERENTIATION, ENHANCEMENT OF PROLIFERATION AND SELECTIVE INDUCTION OF APOPTOSIS BY WNT FACTORS

Title (de)
HEMMUNG DER STAMMZELLDIFFERENZIERUNG, VERBESSERUNG DER PROLIFERATION UND SELEKTIVE INDUKTION VON APOPTOSE DURCH WNT-FAKTOREN

Title (fr)
INHIBITION DE LA DIFFERENTIATION DES CELLULES SOUCHES, AMELIORATION DE LA PROLIFERATION ET INDUCTION SELECTIVE DE L'APOPTOSE PAR DES FACTEURS WNT

Publication
EP 1689856 B1 20111005 (EN)

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Abstract (en)
[origin: WO2005052141A1] The invention relates to a method for at least in part inhibiting differentiation of stem cells in a population of mammalian cells comprising upregulating a Wnt signaling pathway to a differentiation inhibiting level in said population of cells. The invention increases at the same time the number of stem cells in a population of mammalian cells compared to a reference population, and induces at least in part apoptosis in mesenchymal cell in a population of mammalian cells The invention also discloses a method for selective differentiation of a stem cell, comprising controlling the level of Wnt pathway activation. The invention is used for the proliferation and subsequent differentiation of embryonic stem cells and lung stem cells, and for ex vivo lung explant cultivation.

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